WEST Search History

DATE: Thursday, July 10, 2003

Set Name side by side	Query	Hit Count	Set Name result set
DB=USPT,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=OR			
L3	L1 and ((424/450)!.CCLS.)	0	L3
L2	epothilone same liposome$	14	L2
L1	epothilone	331	L1

END OF SEARCH HISTORY

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L2: Entry 6 of 14 File: USPT Dec 17, 2002

US-PAT-NO: 6495579
DOCUMENT-IDENTIFIER: US 6495579 B1

TITLE: Method for treating multiple sclerosis

DATE-ISSUED: December 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hunter; William L.	Vancouver			CA

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Angiotech Pharmaceuticals, Inc.	Vancouver			CA	03

APPL-NO: 09/ 088546 [PALM]
DATE FILED: June 1, 1998

PARENT-CASE:
CROSS REFERENCE TO RELATED APPLICATIONS This application is a Continuation in part of pending U.S. application Ser. No. 08/980,549, filed Dec. 1, 1997, which claims the benefit of Provisional Application No. 60/032,215, filed Dec. 2, 1996, and Provisional Application No. 60/063,087, filed Oct. 24, 1997, which applications are incorporated by reference in their entirety.

INT-CL: [07] A61 K 31/425

US-CL-ISSUED: 514/365
US-CL-CURRENT: 514/365

FIELD-OF-SEARCH: 514/43, 514/365

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected Search ALL

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
☐	4391797	July 1983	Folkman et al.	424/19
☐	4753965	June 1988	Stemerick et al.	514/647
☐	4863968	September 1989	Edwards et al.	514/646
☐	4904697	February 1990	Sunkara et al.	514/629
☐	5092885	March 1992	Yamada et al.	623/11
☐	5330756	July 1994	Steuart et al.	424/405

☐	5411947	May 1995	Hostetler et al.	514/43
☐	5443458	August 1995	Eury	604/89.1
☐	5466455	November 1995	Huffstutler, Jr. et al.	424/401
☐	5476954	December 1995	Bourzat et al.	549/510
☐	5484809	January 1996	Hostetler et al.	514/449
☐	5532388	July 1996	Bouchard et al.	549/510
☐	5541232	July 1996	Howell et al.	514/731
☐	5550261	August 1996	Bouchard et al.	549/510
☐	5565439	October 1996	Piazza et al.	514/110
☐	5565478	October 1996	Kohn et al.	514/359
☐	5567417	October 1996	Sasisekharan et al.	424/94.5
☐	5571917	November 1996	Bouchard et al.	544/369
☐	5573781	November 1996	Brown et al.	424/484
☐	5576450	November 1996	Bouchard et al.	549/510
☐	5580997	December 1996	Bouchard et al.	549/510
☐	5580998	December 1996	Bouchard et al.	549/510
☐	5587459	December 1996	Uckun	530/391.1
☐	5587493	December 1996	Bouchard et al.	549/510
☐	5599942	February 1997	Bouchard et al.	548/215
☐	5606083	February 1997	Bouchard et al.	549/510
☐	5616608	April 1997	Kinsella et al.	514/449
☐	5620971	April 1997	Armistead et al.	514/212
☐	5626862	May 1997	Brem et al.	424/426
☐	5627207	May 1997	Hupe et al.	514/468
☐	5635531	June 1997	Chen	514/471
☐	5651986	July 1997	Brem et al.	424/484
☐	5654337	August 1997	Roentsch et al.	514/570
☐	5654449	August 1997	Bouchard et al.	549/510
☐	5667764	September 1997	Kopia et al.	424/1.45
☐	5716981	February 1998	Hunter et al.	514/449
☐	5733925	March 1998	Kunz et al.	514/449
☐	5773464	June 1998	Walker et al.	514/475
☐	5873904	February 1999	Ragheb et al.	623/1
☐	5886026	March 1999	Hunter et al.	514/449
☐	5977163	November 1999	Li et al.	514/449
☐	5981568	November 1999	Kunz et al.	514/411
☐	5994341	November 1999	Hunter et al.	514/210
☐	6040306	March 2000	Batts et al.	514/236.8

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FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
038 567	October 1981	EP	
262 681	April 1988	EP	
274 846	July 1988	EP	
288 794	November 1988	EP	
294 905	December 1988	EP	
470 246	February 1992	EP	
470 569	February 1992	EP	
543 653	May 1993	EP	
551 182	July 1993	EP	
567 816	November 1993	EP	
568 310	November 1993	EP	
669 916	September 1995	EP	
706 376	April 1996	EP	
717 041	June 1996	EP	
747 385	December 1996	EP	
61-063613	April 1986	JP	
WO 90/01969	March 1990	WO	
WO 91/07154	May 1991	WO	
WO 91/10424	July 1991	WO	
WO 91/11193	August 1991	WO	
WO 91/12779	September 1991	WO	
WO 92/00747	January 1992	WO	
WO 92/12717	August 1992	WO	
WO 92/15286	September 1992	WO	
WO 93/06792	April 1993	WO	
WO 93/11120	June 1993	WO	
WO 94/01425	January 1994	WO	
WO 94/07880	April 1994	WO	
WO 94/12158	June 1994	WO	
WO 94/12484	June 1994	WO	
WO 94/13654	June 1994	WO	
WO 94/21308	September 1994	WO	
WO 95/03036	February 1995	WO	
WO 95/03795	February 1995	WO	
WO 95/13270	May 1995	WO	
WO 95/13271	May 1995	WO	
WO 95/19769	July 1995	WO	
WO 95/21868	August 1995	WO	
WO 95/33736	December 1995	WO	
WO 95/35095	December 1995	WO	
WO 96/03984	February 1996	WO	
WO 96/10912	April 1996	WO	
9613249	May 1996	WO	
WO 96/13494	May 1996	WO	
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WO 96/31493	October 1996	WO	

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WO 97/42958	November 1997	WO
WO 97/45105	December 1997	WO
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WO 99/52889	October 1999	WO
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O'Connor et al.(I), "A Phase I Study of Micellar Paclitaxel in the Treatment of Secondary Progressive Multiple Sclerosis," Annals of Neurology, 46(3), Abstr. No. 95 at p. 470 (Sep., 1999).
O'Connor et al. (II), "Micellar Paclitaxel for the Treatment of Secondary Progressive Multiple Sclerosis: Preliminary Results of the Phase I Extension Study," Annals of Neurology, 48(3), Abstr. No. 228 at p. 476 (Sep., 2000).
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ART-UNIT: 1623

PRIMARY-EXAMINER: Geist; Gary

ASSISTANT-EXAMINER: Crane; L. E.

ATTY-AGENT-FIRM: Seed Intellectual Property Law Group PLLC

ABSTRACT:

Methods and compositions for treating or preventing inflammatory diseases such as

psoriasis or multiple sclerosis are provided, comprising the step of delivering to the site of inflammation an anti-microtubule agent, or analogue or derivative thereof.

29 Claims, 167 Drawing figures

WEST

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Search Results - Record(s) 1 through 14 of 14 returned.

☐ 1. Document ID: US 6589968 B2

L2: Entry 1 of 14 File: USPT Jul 8, 2003

US-PAT-NO: 6589968
DOCUMENT-IDENTIFIER: US 6589968 B2

TITLE: Epothilone compounds and methods for making and using the same

DATE-ISSUED: July 8, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Arslanian; Robert L.	Pacifica	CA		
Carney; John R.	San Bruno	CA		
Metcalf; Brian	Moraga	CA		

US-CL-CURRENT: 514/365; 548/204

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw. Desc | Image

☐ 2. Document ID: US 6581606 B2

L2: Entry 2 of 14 File: USPT Jun 24, 2003

US-PAT-NO: 6581606
DOCUMENT-IDENTIFIER: US 6581606 B2

TITLE: Method, apparatus and system for use in treating patient with a drug having an antineoplastic effect to optimize therapy and prevent an adverse drug response

DATE-ISSUED: June 24, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kutzko; John D.	Nokomis	FL		
McMichael; John P.	Wexford	PA		
Singer; Michaeal G.	Harrisville	MI		

US-CL-CURRENT: 128/898; 600/300

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw. Desc | Image

☐ 3. Document ID: US 6569179 B2

L2: Entry 3 of 14 File: USPT May 27, 2003

US-PAT-NO: 6569179
DOCUMENT-IDENTIFIER: US 6569179 B2

TITLE: Bioactive three loop coil

DATE-ISSUED: May 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Teoh; Clifford	Los Altos	CA		
Ho; Hanh	San Jose	CA		
Quan, Jr.; Kenneth W.	San Jose	CA		

US-CL-CURRENT: 606/191; 606/194

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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☐ 4. Document ID: US 6554851 B1

L2: Entry 4 of 14 File: USPT Apr 29, 2003

US-PAT-NO: 6554851
DOCUMENT-IDENTIFIER: US 6554851 B1

TITLE: Methods of sealing an injection site

DATE-ISSUED: April 29, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Palasis; Maria	Wellesley	MA		
Gordon; Lucas S.	Redmond	WA		

US-CL-CURRENT: 606/213

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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☐ 5. Document ID: US 6515016 B2

L2: Entry 5 of 14 File: USPT Feb 4, 2003

US-PAT-NO: 6515016
DOCUMENT-IDENTIFIER: US 6515016 B2

TITLE: Composition and methods of paclitaxel for treating psoriasis

DATE-ISSUED: February 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hunter; William L.	Vancouver			CA

US-CL-CURRENT: 514/449

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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☐ 6. Document ID: US 6495579 B1

L2: Entry 6 of 14 File: USPT Dec 17, 2002

US-PAT-NO: 6495579
DOCUMENT-IDENTIFIER: US 6495579 B1

TITLE: Method for treating multiple sclerosis

DATE-ISSUED: December 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hunter; William L.	Vancouver			CA

US-CL-CURRENT: 514/365

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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☐ 7. Document ID: US 6489314 B1

L2: Entry 7 of 14 File: USPT Dec 3, 2002

US-PAT-NO: 6489314
DOCUMENT-IDENTIFIER: US 6489314 B1

TITLE: Epothilone derivatives and methods for making and using the same

DATE-ISSUED: December 3, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ashley; Gary	Alameda	CA		
Metcalf; Brian	Moraga	CA		

US-CL-CURRENT: 514/183; 540/451, 540/455, 540/461, 540/462, 540/463

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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☐ 8. Document ID: US 6369039 B1

L2: Entry 8 of 14 File: USPT Apr 9, 2002

US-PAT-NO: 6369039
DOCUMENT-IDENTIFIER: US 6369039 B1
**** See image for Certificate of Correction ****

TITLE: High efficiency local drug delivery

DATE-ISSUED: April 9, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Palasis; Maria	Wellesley	MA		
Walsh; Kenneth	Carlisle	MA		

US-CL-CURRENT: 514/44; 424/93.2, 514/2, 604/509

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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☐ 9. Document ID: US 6368658 B1

L2: Entry 9 of 14 File: USPT Apr 9, 2002

US-PAT-NO: 6368658
DOCUMENT-IDENTIFIER: US 6368658 B1

TITLE: Coating medical devices using air suspension

DATE-ISSUED: April 9, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schwarz; Marlene	Newton	MA		
Miller; Kathleen	Shrewsbury	MA		
Kamath; Kalpana	Natick	MA		

US-CL-CURRENT: 427/2.15; 427/2.24, 427/2.25, 427/2.28, 427/2.3, 427/248.1, 427/255.5, 427/255.6, 427/457, 427/458, 427/459, 427/466, 427/488, 427/496, 427/523, 427/581, 427/582, 427/585, 427/595, 427/596

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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☐ 10. Document ID: US 6344027 B1

L2: Entry 10 of 14 File: USPT Feb 5, 2002

US-PAT-NO: 6344027
DOCUMENT-IDENTIFIER: US 6344027 B1

TITLE: Needle-less injection apparatus and method

DATE-ISSUED: February 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Goll; J. Paul	Woodinville	WA		

US-CL-CURRENT: 604/68; 604/69

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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☐ 11. Document ID: US 6319230 B1

L2: Entry 11 of 14 File: USPT Nov 20, 2001

US-PAT-NO: 6319230
DOCUMENT-IDENTIFIER: US 6319230 B1

TITLE: Lateral needle injection apparatus and method

DATE-ISSUED: November 20, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Palasis; Maria	Wellesley	MA		
Rosenthal; Arthur	Boston	MA		

US-CL-CURRENT: 604/164.01

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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☐ 12. Document ID: US 6280411 B1

L2: Entry 12 of 14 File: USPT Aug 28, 2001

US-PAT-NO: 6280411
DOCUMENT-IDENTIFIER: US 6280411 B1

TITLE: Localized delivery of drug agents

DATE-ISSUED: August 28, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lennox; Charles D.	Hudsom	NH		

US-CL-CURRENT: 604/103.05; 604/103.01, 604/103.02, 604/103.11, 604/103.12, 604/96.01, 606/192, 606/194, 623/1.39, 623/1.42

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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☐ 13. Document ID: US 6231590 B1

L2: Entry 13 of 14 File: USPT May 15, 2001

US-PAT-NO: 6231590
DOCUMENT-IDENTIFIER: US 6231590 B1

TITLE: Bioactive coating for vaso-occlusive devices

DATE-ISSUED: May 15, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Slaikeu; Paul C.	Hayward	CA		
Eder; Joseph C.	Los Altos	CA		
Barry; James J.	Marlborough	MA		
Wallace; Michael P.	Pleasanton	CA		
Abrams; Robert M.	Sunnyvale	CA		

US-CL-CURRENT: 606/200

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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☐ 14. Document ID: WO 200110412 A1 EP 1198225 A1 AU 200062795 A

L2: Entry 14 of 14 File: DWPI Feb 15, 2001

DERWENT-ACC-NO: 2001-211023
DERWENT-WEEK: 200235

TITLE: New liposomal compositions comprising an epothilone, useful for the treatment and prevention of malignant proliferative disorders, particularly tumors

INVENTOR: ALTMANN, K; SONNTAG, J ; WARTMANN, M

PRIORITY-DATA: 1999GB-0018429 (August 4, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 200110412 A1	February 15, 2001	E	016	A61K009/127
EP 1198225 A1	April 24, 2002	E	000	A61K009/127
AU 200062795 A	March 5, 2001		000	A61K009/127

INT-CL (IPC): A61 K 9/127; A61 K 31/425

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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Generate Collection | Print

Terms	Documents
epothilone same liposome$	14

Display Format: - Change Format

Previous Page Next Page

WEST Search History

DATE: Thursday, July 10, 2003

Set Name side by side	Query	Hit Count	Set Name result set
DB=USPT,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=OR			
L7	liposome$ adj5 (taxane or paclitaxel)	37	L7
L6	L5 and $microtubule	1	L6
L5	camptothecin$ adj5 liposome$	20	L5
L4	$microtubule same liposome$	8	L4
L3	L1 and ((424/450)!.CCLS.)	0	L3
L2	epothilone same liposome$	14	L2
L1	epothilone	331	L1

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 20 of 20 returned.

☐ 1. Document ID: US 6548071 B1

L5: Entry 1 of 20 File: USPT Apr 15, 2003

US-PAT-NO: 6548071
DOCUMENT-IDENTIFIER: US 6548071 B1

TITLE: Lyophilizate of lipid complex of water insoluble camptothecins

DATE-ISSUED: April 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cherian; Mathew	Albuquerque	NM		

US-CL-CURRENT: 424/400; 424/484, 514/283

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

☐ 2. Document ID: US 6534080 B2

L5: Entry 2 of 20 File: USPT Mar 18, 2003

US-PAT-NO: 6534080
DOCUMENT-IDENTIFIER: US 6534080 B2

TITLE: Method for administering camptothecins via injection of pharmaceutical composition comprising coated particles of a camptothecin

DATE-ISSUED: March 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sands; Howard	Wilmington	DE		
Mishra; Awadhesh	Quebec			CA

US-CL-CURRENT: 424/423; 424/450

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

☐ 3. Document ID: US 6509027 B2

L5: Entry 3 of 20 File: USPT Jan 21, 2003

US-PAT-NO: 6509027
DOCUMENT-IDENTIFIER: US 6509027 B2

TITLE: Injectable pharmaceutical composition comprising coated particles of camptothecin

DATE-ISSUED: January 21, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sands; Howard	Wilmington	DE		
Mishra; Awadhesh	Quebec			CA

US-CL-CURRENT: 424/423; 424/450

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw. Desc | Image

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☐ 4. Document ID: US 6497896 B2

L5: Entry 4 of 20 File: USPT Dec 24, 2002

US-PAT-NO: 6497896
DOCUMENT-IDENTIFIER: US 6497896 B2

TITLE: Method for administering camptothecins via injection of a pharmaceutical composition comprising microdroplets containing a camptothecin

DATE-ISSUED: December 24, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sands; Howard	Wilmington	DE		
Mishra; Awadhesh	Verdun			CA

US-CL-CURRENT: 424/423; 424/450

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw. Desc | Image

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☐ 5. Document ID: US 6465008 B1

L5: Entry 5 of 20 File: USPT Oct 15, 2002

US-PAT-NO: 6465008
DOCUMENT-IDENTIFIER: US 6465008 B1

TITLE: Liposome-entrapped topoisomerase inhibitors

DATE-ISSUED: October 15, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Slater; James L.	Palo Alto	CA		
Colbern; Gail T.	Pacifica	CA		
Working; Peter K.	Burlingame	CA		

US-CL-CURRENT: 424/450

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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☐ 6. Document ID: US 6440393 B1

L5: Entry 6 of 20 File: USPT Aug 27, 2002

US-PAT-NO: 6440393
DOCUMENT-IDENTIFIER: US 6440393 B1

TITLE: Carbon dioxide enhancement of inhalation therapy

DATE-ISSUED: August 27, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Waldrep; J. Clifford	The Woodlands	TX		
Knight; J. Vernon	Houston	TX		
Koshkina; Nadezhda	Houston	TX		

US-CL-CURRENT: 424/45; 424/1.13, 424/1.21, 424/450, 424/458

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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☐ 7. Document ID: US 6407239 B1

L5: Entry 7 of 20 File: USPT Jun 18, 2002

US-PAT-NO: 6407239
DOCUMENT-IDENTIFIER: US 6407239 B1

TITLE: Aromatic esters of camptothecins and methods to treat cancers

DATE-ISSUED: June 18, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cao; Zhisong	Friendswood	TX		
Giovanella; Beppino C.	Houston	TX		

US-CL-CURRENT: 546/48; 546/51

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

☐ 8. Document ID: US 6355268 B1

L5: Entry 8 of 20 File: USPT Mar 12, 2002

US-PAT-NO: 6355268
DOCUMENT-IDENTIFIER: US 6355268 B1
**** See image for Certificate of Correction ****

TITLE: Liposome-entrapped topoisomerase inhibitors

DATE-ISSUED: March 12, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Slater; James L.	Palo Alto	CA		
Colbern; Gail T.	Pacifica	CA		
Working; Peter K.	Burlingame	CA		

US-CL-CURRENT: 424/450

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

☐ 9. Document ID: US 6352996 B1

L5: Entry 9 of 20 File: USPT Mar 5, 2002

US-PAT-NO: 6352996
DOCUMENT-IDENTIFIER: US 6352996 B1
**** See image for Certificate of Correction ****

TITLE: Liposomal prodrugs comprising derivatives of camptothecin and methods of treating cancer using these prodrugs

DATE-ISSUED: March 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cao; Zhisong	Friendswood	TX		
Giovanella; Beppino C.	Houston	TX		

US-CL-CURRENT: 514/283; 546/48

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

☐ 10. Document ID: US 6346233 B1

L5: Entry 10 of 20 File: USPT Feb 12, 2002

US-PAT-NO: 6346233
DOCUMENT-IDENTIFIER: US 6346233 B1
**** See image for Certificate of Correction ****

TITLE: Composition for treating cancer via liposomal aerosol formulation containing taxol

DATE-ISSUED: February 12, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Knight; J. Vernon	Houston	TX		
Waldrep; J Clifford	The Woodlands	TX		
Koshkina; Nadezhda	Houston	TX		
Gilbert; Brian	Houston	TX		

US-CL-CURRENT: 424/45; 424/450, 424/46

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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☐ 11. Document ID: US RE37410 E

L5: Entry 11 of 20 File: USPT Oct 16, 2001

US-PAT-NO: RE37410
DOCUMENT-IDENTIFIER: US RE37410 E

TITLE: Controlled local delivery of chemotherapeutic agents for treating solid tumors

DATE-ISSUED: October 16, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Brem; Henny	Lutherville	MD		
Langer; Robert S.	Newton	MA		
Domb; Abraham J.	Efrat			IL

US-CL-CURRENT: 424/484; 424/401, 424/426, 424/486, 424/499

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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☐ 12. Document ID: US 6291676 B1

L5: Entry 12 of 20 File: USPT Sep 18, 2001

US-PAT-NO: 6291676
DOCUMENT-IDENTIFIER: US 6291676 B1
**** See image for Certificate of Correction ****

TITLE: Water-soluble derivatives of camptothecin/homocamptothecin

DATE-ISSUED: September 18, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Burke; Thomas G.	Lexington	KY		
Demir; Ayhan S.	Neunkirchen			TR
Tanyeli; Cihangir	Ankara			TR
Chavan; Ashok J.	Lexington	KY		
Wang; Tie-Lin	San Diego	CA		
Pommier; Yves	Bethesda	MD		

US-CL-CURRENT: 546/48

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC
Draw Desc | Image

☐ 13. Document ID: US 6096336 A

L5: Entry 13 of 20 File: USPT Aug 1, 2000

US-PAT-NO: 6096336
DOCUMENT-IDENTIFIER: US 6096336 A
**** See image for Certificate of Correction ****

TITLE: Liposomal prodrugs comprising derivatives of camptothecin and methods of treating cancer using these prodrugs

DATE-ISSUED: August 1, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cao; Zhisong	Friendswood	TX		
Giovanella; Beppino C.	Houston	TX		

US-CL-CURRENT: 424/450; 514/283

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC
Draw Desc | Image

☐ 14. Document ID: US 6090407 A

L5: Entry 14 of 20 File: USPT Jul 18, 2000

US-PAT-NO: 6090407
DOCUMENT-IDENTIFIER: US 6090407 A
**** See image for Certificate of Correction ****

TITLE: Small particle liposome aerosols for delivery of anti-cancer drugs

DATE-ISSUED: July 18, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Knight; J. Vernon	Houston	TX		
Gilbert; Brian	Houston	TX		
Waldrep; J. Clifford	The Woodlands	TX		
Koshkina; Nadezhda	Houston	TX		

US-CL-CURRENT: 424/450; 424/45, 514/938

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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☐ 15. Document ID: US 5834012 A

L5: Entry 15 of 20 File: USPT Nov 10, 1998

US-PAT-NO: 5834012
DOCUMENT-IDENTIFIER: US 5834012 A
**** See image for Certificate of Correction ****

TITLE: Lipid complexed topoisomerase I inhibitors

DATE-ISSUED: November 10, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Perez-Soler; Roman	Houston	TX	77005	
Sugarman; Steven M.	Stony Brook	NY	11790	
Poirot; Kenneth R.	Houston	TX	77054	

US-CL-CURRENT: 424/450

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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☐ 16. Document ID: US 5776486 A

L5: Entry 16 of 20 File: USPT Jul 7, 1998

US-PAT-NO: 5776486
DOCUMENT-IDENTIFIER: US 5776486 A

TITLE: Methods and apparatus for making liposomes containing hydrophobic drugs

DATE-ISSUED: July 7, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Castor; Trevor P.	Arlington	MA		
Chu; Ling	Chelmsford	MA		

US-CL-CURRENT: 424/450; 264/4.1, 264/4.3, 264/4.6

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC
Draw Desc | Image

☐ 17. Document ID: US 5736156 A

L5: Entry 17 of 20 File: USPT Apr 7, 1998

US-PAT-NO: 5736156
DOCUMENT-IDENTIFIER: US 5736156 A

TITLE: Liposomal anf micellular stabilization of camptothecin drugs

DATE-ISSUED: April 7, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Burke; Thomas G.	Columbus	OH		

US-CL-CURRENT: 424/450; 514/279, 514/283

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC
Draw Desc | Image

☐ 18. Document ID: US 5552156 A

L5: Entry 18 of 20 File: USPT Sep 3, 1996

US-PAT-NO: 5552156
DOCUMENT-IDENTIFIER: US 5552156 A

TITLE: Liposomal and micellular stabilization of camptothecin drugs

DATE-ISSUED: September 3, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Burke; Thomas G.	Columbus	OH		

US-CL-CURRENT: 424/450

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC
Draw Desc | Image

☐ 19. Document ID: WO 2094269 A1

L5: Entry 19 of 20 File: EPAB Nov 28, 2002

PUB-NO: WO002094269A1
DOCUMENT-IDENTIFIER: WO 2094269 A1
TITLE: LIPOSOMALLY ENCAPSULATED HYDROPHOBIC ACTIVE INGREDIENTS WITH A HIGH ACTIVE INGREDIENT CONTENT > 50 % AND METHOD FOR THE PRODUCTION OF PHARMACEUTICAL PREPARATIONS CONTAINING LIPOSOMALLY ENCAPSULATED HYDROPHOBIC ACTIVE INGREDIENTS

PUBN-DATE: November 28, 2002

INVENTOR-INFORMATION:

NAME	COUNTRY
RESZKA, REGINA	DE
SCHERRER, PETER	DE

INT-CL (IPC): A61 K 31/4745; A61 K 9/127
EUR-CL (EPC): A61K009/127; A61K009/127

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC
Draw Desc | Image

☐ 20. Document ID: EP 1121102 B1 WO 200023052 A1 AU 200011189 A NO 200101844 A EP 1121102 A1 BR 9914601 A KR 2001075639 A ZA 200103063 A CN 1323199 A US 6355268 B1 US 20020146450 A1 JP 2002527466 W US 6465008 B1

L5: Entry 20 of 20 File: DWPI Apr 23, 2003

DERWENT-ACC-NO: 2000-350326
DERWENT-WEEK: 200329
COPYRIGHT 2003 DERWENT INFORMATION LTD
TITLE: Composition for treating a tumor comprises topoisomerase inhibitor entrapped in liposomes

INVENTOR: COLBERN, G T; SLATER, J L ; WORKING, P K

PRIORITY-DATA: 1998US-104671P (October 16, 1998), 1999US-0419189 (October 15, 1999), 2001US-0046326 (October 19, 2001)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 1121102 B1	April 23, 2003	E	000	A61K009/127
WO 200023052 A1	April 27, 2000	E	050	A61K009/127
AU 200011189 A	May 8, 2000		000	
NO 200101844 A	April 10, 2001		000	A61K009/127
EP 1121102 A1	August 8, 2001	E	000	A61K009/127
BR 9914601 A	October 23, 2001		000	A61K009/127
KR 2001075639 A	August 9, 2001		000	A61K009/127
ZA 200103063 A	December 24, 2001		058	A61K000/00
CN 1323199 A	November 21, 2001		000	A61K009/127
US 6355268 B1	March 12, 2002		000	A61K009/127
US 20020146450 A1	October 10, 2002		000	A61K031/496
JP 2002527466 W	August 27, 2002		065	A61K009/127
US 6465008 B1	October 15, 2002		000	A61K009/127

INT-CL (IPC): A61 K 0/00; A61 K 9/127; A61 K 31/352; A61 K 31/435; A61 K 31/4375; A61 K 31/4745; A61 K 31/496; A61 K 45/00; A61 K 47/28; A61 K 47/34; A61 K 47/36; A61 K 47/44; A61 P 35/00; A61 P 43/00

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC
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Terms	Documents
camptothecin$ adj5 liposome$	20

Display Format: - Change Format

Previous Page Next Page

WEST

End of Result Set

☐ Generate Collection Print

L6: Entry 1 of 1 File: USPT Oct 16, 2001

DOCUMENT-IDENTIFIER: US RE37410 E
TITLE: Controlled local delivery of chemotherapeutic agents for treating solid tumors

Other Reference Publication (60):
Rowinsky, et al., "Microtubule Chanes and Cytotoxicity in Leukemic Cell Lines Treated with Taxol." Cancer Res. 48:4093-4100 (1988).

Other Reference Publication (62):
Rowinsky, et al., "Taxol: A Novel Investigational Antimicrotubule Agent," J. Natl. Cancer Inst. 82:1247-1259 (1990).

Other Reference Publication (87):
Zhang, et al., "A method for determining the encapsulation ratio of camptothecin in polyphase liposome and studies on its leakage property," Yao Hsueh Hsueh Pao 22(12):918-22 (1987).

WEST Search History

DATE: Thursday, July 10, 2003

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L6	L5 and $microtubule	1	L6
L5	camptothecin$ adj5 liposome$	20	L5
L4	$microtubule same liposome$	8	L4
L3	L1 and ((424/450)!.CCLS.)	0	L3
L2	epothilone same liposome$	14	L2
L1	epothilone	331	L1

END OF SEARCH HISTORY

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Generate Collection | Print

L7: Entry 26 of 37 File: USPT Jul 7, 1998

DOCUMENT-IDENTIFIER: US 5776486 A
TITLE: Methods and apparatus for making liposomes containing hydrophobic drugs

Drawing Description Text (17):
FIG. 16 depicts the toxicity profile of cells to which liposomes made in accordance with the present invention but without paclitaxel were applied as a control study.

Drawing Description Text (19):
FIG. 18 depicts the toxicity profile of cells to which liposomes made in accordance with the present invention containing paclitaxel, were applied as a percent cell survival as a function of dosage level.

Drawing Description Text (20):
FIG. 19 depicts graphically, in bar graph form, a comparison of in vitro percent specific effect of 1.0 .mu.g/ml liposomes containing paclitaxel made in accordance with the present invention and cremophor formulated paclitaxel (CP) for three breast cancer cell lines.

Detailed Description Text (110):
Liposomes containing paclitaxel, paclitaxel and cephalomannine, or camptothecin were formed as described in Example 1. Such liposomes were made using a 0.5 mm nozzle at a pressure of 4,000 psig and a temperature 60.degree. C. Paclitaxel and cephalomannine, or camptothecin, in powdered form, were placed with phospholipids into a phospholipid chamber 69 of the apparatus depicted in FIG. 1. The apparatus was operated to dissolve the phospholipid and drug in SCoCoNC fluid to form a drug mixture. This mixture is injected into an aqueous phase to form liposomes.

Detailed Description Text (112):
Liposomes containing paclitaxel, or paclitaxel and cephalomannine, or camptothecin were formed as described in Example 1. That is, phospholipid, drug, aqueous phase, and a SCoCoNC fluid are thoroughly mixed in an apparatus as described in FIG. 1. The apparatus is operated at a pressure of 4,000 psig and a temperature of 60.degree. C. This mixture is held in a first vessel and placed in fluid communication with a second vessel via a nozzle. Upon depressurization of the mixture, as the mixture moves from the first vessel to the second, or upon depressurization of the mixture upon entering the second vessel, liposomes containing drug are formed.

Detailed Description Text (124):
The liposomal samples from liposome formation processes featuring injection and decompression were centrifuged at 2,000 rpm for 30 minutes, to remove any unencapsulated solutes and large phospholipid crystals in the liposome suspension. An HPLC assay was performed to determine the paclitaxel and cephalomannine content of liposomes in the supernatant of the centrifuge tube. For comparative reasons, liposomes formed by sonication were also centrifuged and the suspended liposomes were assayed for paclitaxel and cephalomannine content. The results are presented in Table 20 below.

Detailed Description Text (125):
The data clearly demonstrates that liposomes formed by injection or decompression encapsulate paclitaxel and cephalomannine. The data also suggests that injection or decompression processes capture paclitaxel more effectively than those formed by the sonication method. In LIP-166 formed by sonication, it appears that a large amount of

unencapsulated paclitaxel was present in the solution, more than 45%, and that untrapped paclitaxel and cephalomannine precipitated out after centrifugation.

Detailed Description Text (126):
The incorporation of paclitaxel in liposomes was examined by utilizing Gel Exclusion Chromatography (GEC) to fractionate liposomes in different sizes, and to determine whether the paclitaxel moves with the liposomes. The eluant from the GEC column was analyzed, again, by HPLC. The particle size analysis including particle size distribution of eluted sample was also examined by the Coulter particle size analyzer.

Detailed Description Text (130):
FIGS. 11 and 12 show the analytical results of GEC fractionation of LIP-166 prepared by the sonication method (see Table 20). FIG. 11 depicts, in bar graph form, intensity and size of liposomes prepared by sonication. A large amount of liposomes eluted out of the GEC column from 20 to 40 ml, and solutions under these peaks were cloudy. Entrapped paclitaxel and cephalomannine were eluted with liposomes of around 180 nm from GEC column. These results are depicted in FIG. 12. These results are consistent with results obtained with LIP-154 which was prepared by the injection process. However, in LIP-166, the amount of paclitaxel and cephalomannine entrapped in the liposomes was much lower, about ten times, than those from the injection process. The majority of particles (86%) in LIP-166 formed by sonication are in the 38 nm range, and would not be expected to have a high paclitaxel content since small sized liposomes do not trap paclitaxel as effectively as larger liposomes.

Detailed Description Text (132):
A uniform size distribution of liposomes from the first stage of fractional decompression in both experiments was again obtained. However, paclitaxel concentration in this population of liposomes is relatively low. In our size exclusion chromatography study for LIP-154 (FIGS. 9 and 10), it was shown that paclitaxel eluted out mostly with liposomes in the 160 to 270 nm size range. This suggested that an optimal size of liposomes to encapsulate paclitaxel and cephalomannine may be in the range of 150-290 nm. In the second stage of decompression, the particles are distributed into two larger population sizes in both LIP-175 and LIP-176. This may be due to the rapid volume expansion of critical fluid below its critical pressure which is considerably larger than that in the first decompression stage. Liposomes formed in the high pressure circulation loop prior to the decompression go through a rapid disruption and fusion process, and vesiculate into larger liposomes.

Detailed Description Text (139):
Stability Comparison of Liposome Encapsulated Paclitaxel Using Injection or Decompression Processes and Sonication

Detailed Description Text (146):
Cytotoxicity Studies of Liposome Encapsulated Paclitaxel

Detailed Description Text (147):
A. Toxicity of Liposomes Encapsulating Paclitaxel Against Colon Cancer Cell Lines

Detailed Description Text (148):
An independent study on cytotoxicity of liposome encapsulated paclitaxel prepared by decompression processes was conducted. Samples of LIP-175 and LIP-176, prepared by the critical fluid decompression technique were tested against the HCT 116 human colon cancer cell line. A sample of LIP-171 which contained no paclitaxel or cephalomannine was also tested against the same cell line as a control.

Detailed Description Text (149):
In the cytotoxicity studies, a five order of magnitude dilution of the liposomal encapsulated paclitaxel was used. After seeding onto the plates for four hours, the cells were treated with liposome encapsulated paclitaxel and unencapsulated paclitaxel as a control in 0.5% DMSO buffer. The paclitaxel was left on the cells for three days after which time the plates were re-fed and thiazolyl blue was added. The reduction of the thiazolyl blue to a purple formazan product correlates in a linear way with the number of living cells in the well plates. Therefore by measuring the

absorbance of this reduction product, the percent of cell survival at a given dose of paclitaxel can be quantified.

Detailed Description Text (150):
The results of these studies were plotted with percent of cell survival as a function of paclitaxel concentration. Results for liposomes formed in accordance with the present methods but without paclitaxel are illustrated in FIG. 16. Results with paclitaxel, without liposomes, are illustrated in FIG. 17. Results of liposomes with paclitaxel are illustrated in FIG. 18. The data suggest that liposomes containing paclitaxel exhibit similar drug activity compared with that of paclitaxel without liposomes.

Detailed Description Text (159):
The xenografts were evaluated after treatment with LEP, cremophor-paclitaxel, empty liposomes (as a control) and cremophor (as a control). The results, tumor volume versus weeks of treatment, are graphically depicted in FIG. 20. Results from mice receiving liposomal-paclitaxel are plotted with an enclosed rectangle; results from mice receiving cremophor-paclitaxel are plotted with an enclosed triangle; results from mice receiving empty liposomes are plotted with closed circles; and results from mice receiving cremophor alone are plotted with open circles. After five doses of liposomal paclitaxel, cremophor-paclitaxel and empty liposomes, liposomal-paclitaxel exhibited a better antitumor effect than the cremophor-paclitaxel.

L7: Entry 29 of 37 File: USPT Nov 4, 1997

DOCUMENT-IDENTIFIER: US 5683715 A
TITLE: Taxane-containing phosphatidylcholine liposomes

Brief Summary Text (7):
This invention provides a liposome comprising a taxane and a bilayer comprising a lipid, wherein the lipid consists essentially of a phosphatidylcholine. Typically, the concentration of the taxane is at least about one mole percent, preferably from about 1 mole percent to about 4 mole percent. The taxane can be paclitaxel, taxotere, a baccatin or a cephalomannine, and is preferably paclitaxel. Preferably, the taxane is associated with the liposomal bilayer. The phosphatidylcholine (PC) is an unsaturated or partially unsaturated PC and includes, without limitation, dioleoyl phosphatidylcholine (DOPC), palmitoyloleoyl phosphatidylcholine (POPC), or egg phosphatidylcholine (EPC); preferably, the PC is EPC. Preferably, the liposome is unilamellar, more preferably a unilamellar liposome having an average diameter of from about 100 nm to about 200 nm. The liposome can be dehydrated.

Brief Summary Text (9):
Still further provided herein is a liposome composition comprising: (I) a dehydrated liposome which comprises a taxane and a bilayer comprising a lipid; and (ii) one or more protective sugars at the inside and outside surfaces of the bilayer, wherein the lipid consists essentially of a phosphatidylcholine.

Detailed Description Text (2):
This invention provides a liposome comprising a taxane and a bilayer comprising a lipid, wherein the lipid consists essentially of a phosphatidylcholine. Typically, the concentration of the taxane is at least about one mole percent, preferably from about 1 mole percent to about 4 mole percent. However, the concentration may be higher or lower as needed. The lower concentration limit is governed by the least amount of paclitaxel it is practical to make liposomes with given the intended use of the liposomal paclitaxel, and may be readily determined by ordinarily skilled artisans. The upper limit is governed by the paclitaxel crystallization concentration, i.e., the concentration at which it separates out from lipid bilayers and forms aggregates.

Detailed Description Text (5):
Phosphatidylcholines (PCs) are preferred herein for liposome formulation with taxanes. PCs having unsaturated acyl chains, that is fatty acids having one or mor double bonds between adjacent carbon atoms, or partially unsaturated acyl chains, that is, one unsaturated and one saturated, are preferred herein. These unmsaturated or partially unsaturated PCs include, withjout limitation, dioleoyl phosphatidylcholine (DOPC), palmitoyloleoyl phosphatidylcholine (POPC), or egg phosphatidylcholine (EPC).

Detailed Description Text (6):
Such lipids are the most effective at inhibiting taxane crystallization and concomittant precipitation from lipid bilayers, as demonstrated by the crystallization data presented below (see Example 1). Dispersion of paclitaxel and a lipid were formulated, with the paclitaxel and lipid concentrations (as well as the relative proportions of paclitaxel and lipid) given in Table 1 (see below). The ability of paclitaxel to form a stable dispersion with a lipid, described in the table as a "Yes", indicates that the lipid can be a suitable liposome-based carrier for the taxane, that is, liposomal taxane formulations will be stable in storage.

Stable liposomal taxane preparations are generally characterized by an absence of taxane aggregation and crystallization. Preferred lipids are those a unit weight of which a greater amount of a taxane can be associated with; that is, the paclitaxel/lipid ratios and mole percent paclitaxel in the dispersion are highest for the preferred lipids; consequently, the lipid/paclitaxel ratio is lower in the preferred lipids. The data presented in Table 1 claerly show that the paclitaxel/lipid ratio and mole percent paclitaxel in the dispersion are highest (43.99 micrograms/milligram and 3.76, respectively) for the most preferred PC, that is, EPC.

Detailed Description Text (10):
Liposomal dehydration generally requires use of a hydrophilic drying protectant (see U.S. Pat. No. 4,880,635, the contents of which are incorporated herein by reference). This hydrophilic compound is generally believed to prevent the rearrangement of the lipids in the liposome, so that the size and contents are maintained during the drying procedure and through rehydration, such that the liposomes can be reconstituted. Appropriate qualities for such drying protectants are that they be strong hydrogen bond formers, and possess stereochemical features that preserve the intramolecular spacing of the liposome bilayer components. Saccharide sugars, preferentially mono- and disaccharides, more preferably, disaccharides, are suitable drying protectants for liposomes. Alternatively, the drying protectant can be omitted if the liposome preparation is not frozen prior to dehydration, and sufficient water remains in the preparation subsequent to dehydration and if the liposome is multilamellar. Preferably, the protective sugar concentration in the liposome composition prior to dehydration is from about 100 mM to about 250 mM, or from about 5 moles of sugar per mole of phosphatidylcholine to about 12.5 moles of sugar per mole phosphatidylcholine. The protective sugar should be present at both inside and outside the liposome bilayers prior to dehydration. Without intending to be limited by theory, it is generally believed that protective sugars inside liposome bilayers prior to dehydration inhibit leakage of liposome contents, and that outisde sugars inhibit interliposomal aggregation and fusion. Further provided herein is a liposome composition comprising: (I) a dehydrated liposome which comprises a taxane and a bilayer comprising a lipid; and (ii) one or more protective sugars at the inside and outside surfaces of the bilayer, wherein the lipid consists essentially of a phosphatidylcholine

Detailed Description Text (14):
Still further provided is a method of administering a taxane to an animal, preferably a human, which comprises administering to the animal this pharmaceutical composition. This method can be used to administer liposomal taxanes to animals afflicted with cancers, e.g., brain, breast, colon, liver, lung, ovarian or prostate cancer; such therapeutic use requires administration of an amount of the pharmaceutical composition which comprises an amount of the liposome comprising an anticancer effective amount of the taxane. Preferably, the taxane administered is paclitaxel.

Detailed Description Text (24):
Formation of Egg Phosphatidylcholine Multilamellar Liposomes (MLVs) Containing Paclitaxel

Detailed Description Text (31):
Liposomes containing EPC, but no paclitaxel (placebo vesicles), were formed with 10 grams of EPC and 75 ml of methylene chloride according to the above-described procedure (see Example 3). The EPC and methylene chloride were mixed with an A-200 propeller (high shear). The mean diameter (see FIG. 1) of the liposomes formed, as determined by NICOMP, was 204.5 nm. Freeze-fracture electron microscopy showed liposomes with diameters of from about 65 nm to about 350 nm, in agreement with the NICOMP.

Detailed Description Text (32):
Liposomes containing EPC and paclitaxel were formed using 10 grams of EPC, 300 mg of paclitaxel and 75 ml of methylene chloride by the same procedure. The mean diameter of the liposomes formed, as determined by NICOMP, was 309.8 nm (see FIG. 2). Freeze-fracture electron microscopy showed that vesicles with diameters of from about 90 to about 1200 nm were formed. The EM studies also showed that the interlamellar spacings in these liposomes were large and irregular, which is indicative of a

repulsion between the layers. No paclitaxel crystallization was observed by light or EM microscopy or upon centrifugation in histopaque. Crystals 5 to 15 microns long were observed, by light microscopy, after the liposomes had been stored for about one week in the cold room (4 deg. C.) These were removed by centrifugation in histopaque, saving the supernatants and discarding the resulting pellets.

Detailed Description Text (35):
Multilamellar liposomes containing EPC and paclitaxel (MW 853.9) were prepared as described above (see Example 3). The MLVs were then extruded through 0.1 micron and 0.2 micron Nucleopore.TM. polycarbonate filters, Paclitaxel concentrations were determined by spectrophotometry using an extinction coefficient of .theta.=29,700 L/mol.cm.sup.-1 at 229 nm. Due to the overlap with the EPC peak, subtraction of this peak was performed by using an equivalent amount of EPC in the reference cell. Five percent of the paclitaxel contained within the EPC MLVs was lost after the multiple extrusions through the 0.2 micron filters. Nine percent was lost after extrusion through the 0.1 micron filters. No paclitaxel crystallization was observed in any of the unilamellar liposomes produced by the extrusion process.

Detailed Description Text (38):
Liposomes containing egg phosphatidylcholine (EPC) and paclitaxel were made, as described above, and then administered (intravenously, day 1) to groups of mice in the doses indicated below. The number of mice in each group surviving until the end of the observation period (15 days) was then determined.

CLAIMS:

1. A liposome consisting essentially of a lipid and paclitaxel, wherein the lipid is an unsaturated or a partially unsaturated phosphatidylcholine.

2. The liposome of claim 1, wherein the concentration of paclitaxel is at least about one mole percent.

3. The liposome of claim 2, wherein the concentration of paclitaxel is from about 1 mole percent to about 4 mole percent.

4. The liposome of claim 1, wherein paclitaxel is associated with the bilayer.

15. A liposome composition which comprises: (i) a dehydrated liposome consisting essentially of paclitaxel and a lipid; and (ii) one or more protective sugars at the inside and outside surfaces of the bilayer, wherein the lipid is an unsaturated or partially unsaturated phosphatidylcholine.

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Search Results - Record(s) 31 through 37 of 37 returned.

☐ 31. Document ID: US 5415869 A

L7: Entry 31 of 37 File: USPT May 16, 1995

US-PAT-NO: 5415869
DOCUMENT-IDENTIFIER: US 5415869 A

TITLE: Taxol formulation

DATE-ISSUED: May 16, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Straubinger; Robert M.	Amherst	NY		
Sharma; Amarnath	Buffalo	NY		
Mayhew; Eric	South Wales	NY		

US-CL-CURRENT: 424/450

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw. Desc | Image

☐ 32. Document ID: US 20020102298 A1

L7: Entry 32 of 37 File: DWPI Aug 1, 2002

DERWENT-ACC-NO: 2002-690593
DERWENT-WEEK: 200274
COPYRIGHT 2003 DERWENT INFORMATION LTD
TITLE: New temperature sensitive liposome contains active agent e.g. paclitaxel, camptothecin, or doxorubicin, and gel-phase lipid bilayer membrane

INVENTOR: NEEDHAM, D

PRIORITY-DATA: 1999US-0458484 (December 9, 1999), 1998US-0099668 (June 18, 1998), 2002US-0083734 (February 26, 2002)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 20020102298 A1	August 1, 2002		024	A61K009/127

INT-CL (IPC): A61 K 9/127

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw. Desc | Image

☐ 33. Document ID: EP 1259225 A2 WO 200156548 A2 AU 200128699 A

L7: Entry 33 of 37 File: DWPI Nov 27, 2002

DERWENT-ACC-NO: 2001-596577
DERWENT-WEEK: 200302
COPYRIGHT 2003 DERWENT INFORMATION LTD
TITLE: Forming liposomes useful in encapsulating drugs for e.g. paclitaxel comprises dehydrating aqueous suspension containing empty liposomes, lipophilic active ingredient and dissolved sugar

INVENTOR: ZADI, B

PRIORITY-DATA: 2000EP-0300904 (February 4, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 1259225 A2	November 27, 2002	E	000	A61K009/127
WO 200156548 A2	August 9, 2001	E	029	A61K009/127
AU 200128699 A	August 14, 2001		000	A61K009/127

INT-CL (IPC): A61 K 9/127

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw. Desc | Image

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☐ 34. Document ID: JP 2003514768 W WO 200117508 A1 AU 200071229 A EP 1210065 A1 BR 200013866 A US 20020168355 A1 CN 1378443 A ZA 200201555 A CZ 200200850 A3

L7: Entry 34 of 37 File: DWPI Apr 22, 2003

DERWENT-ACC-NO: 2001-265928
DERWENT-WEEK: 200336
COPYRIGHT 2003 DERWENT INFORMATION LTD
TITLE: Selectively affecting angiogenic endothelial cells, useful e.g. for treating cancer, chronic inflammatory diseases and for wound healing, comprises administering composition containing cationic lipids and substance that effects angiogenesis

INVENTOR: MCDONALD, D M; MCLEAN, J W ; THURSTON, O G

PRIORITY-DATA: 1999US-0392976 (September 9, 1999), 1997US-0820337 (March 12, 1997), 1998US-0127177 (July 31, 1998), 2002US-0161194 (May 28, 2002)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 2003514768 W	April 22, 2003		082	A61K009/127
WO 200117508 A1	March 15, 2001	E	040	A61K009/127
AU 200071229 A	April 10, 2001		000	A61K009/127
EP 1210065 A1	June 5, 2002	E	000	A61K009/127
BR 200013866 A	May 14, 2002		000	A61K009/127
US 20020168355 A1	November 14, 2002		000	A61K038/48
CN 1378443 A	November 6, 2002		000	A61K009/127
ZA 200201555 A	April 30, 2003		066	A61K000/00
CZ 200200850 A3	April 16, 2003		000	A61K009/127

INT-CL (IPC): A61 K 0/00; A61 K 9/127; A61 K 31/337; A61 K 38/48; A61 K 47/24; A61 P

7/00; A61 P 9/10; A61 P 17/02; A61 P 29/00; A61 P 35/00; A61 P 39/00; G01 N 33/574

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC
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☐ 35. Document ID: WO 9834597 A1 US 5827533 A AU 9863196 A US 5882679 A

L7: Entry 35 of 37 File: DWPI Aug 13, 1998

DERWENT-ACC-NO: 1998-446921
DERWENT-WEEK: 200209
COPYRIGHT 2003 DERWENT INFORMATION LTD
TITLE: New liposome containing active agent - which is a pharmacologically active agent, diagnostic agent or nutritional agent

INVENTOR: NEEDHAM, D; SARPAL, R S

PRIORITY-DATA: 1997US-0795100 (February 6, 1997), 1998US-0129654 (August 5, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 9834597 A1	August 13, 1998	E	139	A61K009/127
US 5827533 A	October 27, 1998		000	A61K009/133
AU 9863196 A	August 26, 1998		000	A61K009/127
US 5882679 A	March 16, 1999		000	A61K009/127

INT-CL (IPC): A61 K 9/127; A61 K 9/133; A61 K 31/335

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC
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☐ 36. Document ID: US 5683715 A

L7: Entry 36 of 37 File: DWPI Nov 4, 1997

DERWENT-ACC-NO: 1997-548932
DERWENT-WEEK: 199750
COPYRIGHT 2003 DERWENT INFORMATION LTD
TITLE: Storage-stable liposomes containing paclitaxel - having optionally unsaturated phosphatidyl choline as lipid, used for treating cancer

INVENTOR: BONI, L; PORTNOFF, J

PRIORITY-DATA: 1995US-0482359 (June 7, 1995), 1993US-0063131 (May 17, 1993)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 5683715 A	November 4, 1997		011	A61K009/127

INT-CL (IPC): A61 K 9/127

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC
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☐ 37. Document ID: US 5415869 A DE 69425879 E WO 9513053 A1 AU 9511769 A EP 683664 A1 EP 683664 A4 JP 08508046 W EP 683664 B1

L7: Entry 37 of 37 File: DWPI May 16, 1995

DERWENT-ACC-NO: 1995-193393
DERWENT-WEEK: 200060

TITLE: Liposome compsn. contg. taxane, used for treating cancer - contg. negatively charged and zwitterionic phospholipid cpds., preventing crystallisation of taxane and agglomeration.

INVENTOR: MAYHEW, E; SHARMA, A ; STRAUBINGER, R M

PRIORITY-DATA: 1993US-0151215 (November 12, 1993)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 5415869 A	May 16, 1995		038	A61K009/127
DE 69425879 E	October 19, 2000		000	A61K009/127
WO 9513053 A1	May 18, 1995	E	055	A61K009/127
AU 9511769 A	May 29, 1995		000	A61K009/127
EP 683664 A1	November 29, 1995	E	000	A61K009/127
EP 683664 A4	January 31, 1996		000	A61K009/127
JP 08508046 W	August 27, 1996		052	A61K031/335
EP 683664 B1	September 13, 2000	E	000	A61K009/127

INT-CL (IPC): A61 K 9/127; A61 K 9/133; A61 K 31/335; A61 K 47/24

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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Terms	Documents
liposome$ adj5 (taxane or paclitaxel)	37

Display Format: - Change Format

Previous Page Next Page

WEST

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Search Results - Record(s) 1 through 30 of 37 returned.

☐ 1. Document ID: US 6515017 B1

L7: Entry 1 of 37 File: USPT Feb 4, 2003

US-PAT-NO: 6515017
DOCUMENT-IDENTIFIER: US 6515017 B1

TITLE: Water soluble paclitaxel derivatives

DATE-ISSUED: February 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Li; Chun	Missouri City	TX		
Wallace; Sidney	Houston	TX		
Yu; Dong-Fang	Houston	TX		
Yang; David	Sugar Land	TX		

US-CL-CURRENT: 514/449; 600/1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWMC | Draw. Desc | Image

☐ 2. Document ID: US 6500461 B2

L7: Entry 2 of 37 File: USPT Dec 31, 2002

US-PAT-NO: 6500461
DOCUMENT-IDENTIFIER: US 6500461 B2

TITLE: Particulate formulations

DATE-ISSUED: December 31, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Perkins; Walter	Trenton	NJ		
Li; Xingong	Levittown	PA		
Hirsh; Donald	Trenton	NJ		
Mayhew; Eric	Monmouth Junction	NJ		
Ahmad; Imran	Cranbury	NJ		
Ali; Shaukat	Monmouth Junction	NJ		
Janoff; Andrew	Yardley	PA		

US-CL-CURRENT: 424/489; 264/4.1, 264/4.3, 264/4.6, 424/427, 424/434, 424/435, 424/436, 424/490

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC
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☐ 3. Document ID: US 6482850 B2

L7: Entry 3 of 37 File: USPT Nov 19, 2002

US-PAT-NO: 6482850
DOCUMENT-IDENTIFIER: US 6482850 B2

TITLE: Hydrolysis-promoting hydrophobic taxane derivatives

DATE-ISSUED: November 19, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ali; Shaukat	Monmouth Junction	NJ		
Franklin; J. Craig	Skillman	NJ		
Ahmad; Imran	Cranbury	NJ		
Mayhew; Eric	Monmouth Junction	NJ		
Bhattacharya; Soumendu	Plainsboro	NJ		
Koehane; Gil	Piscataway	NJ		
Janoff; Andrew S.	Yardley	PA		

US-CL-CURRENT: 514/449; 549/510, 549/511

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC
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☐ 4. Document ID: US 6461637 B1

L7: Entry 4 of 37 File: USPT Oct 8, 2002

US-PAT-NO: 6461637
DOCUMENT-IDENTIFIER: US 6461637 B1

TITLE: Method of administering liposomal encapsulated taxane

DATE-ISSUED: October 8, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rahman; Aquilur	Long Grove	IL		

US-CL-CURRENT: 424/450; 514/449, 514/510

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC
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☐ 5. Document ID: US 6441025 B2

L7: Entry 5 of 37 File: USPT Aug 27, 2002

US-PAT-NO: 6441025
DOCUMENT-IDENTIFIER: US 6441025 B2

TITLE: Water soluble paclitaxel derivatives

DATE-ISSUED: August 27, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Li; Chun	Missouri City	TX		
Wallace; Sidney	Houston	TX		
Yu; Dong-Fang	Houston	TX		
Yang; David J.	Sugar Land	TX		

US-CL-CURRENT: 514/449

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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☐ 6. Document ID: US 6440393 B1

L7: Entry 6 of 37 File: USPT Aug 27, 2002

US-PAT-NO: 6440393
DOCUMENT-IDENTIFIER: US 6440393 B1

TITLE: Carbon dioxide enhancement of inhalation therapy

DATE-ISSUED: August 27, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Waldrep; J. Clifford	The Woodlands	TX		
Knight; J. Vernon	Houston	TX		
Koshkina; Nadezhda	Houston	TX		

US-CL-CURRENT: 424/45; 424/1.13, 424/1.21, 424/450, 424/458

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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☐ 7. Document ID: US 6426086 B1

L7: Entry 7 of 37 File: USPT Jul 30, 2002

US-PAT-NO: 6426086
DOCUMENT-IDENTIFIER: US 6426086 B1

TITLE: pH-sensitive, serum-stable liposomes

DATE-ISSUED: July 30, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Papahadjopoulos; Demetrios	late of San Francisco	CA		
Meyer; Olivier	Strasbourg			FR
Leroux; Jean-Christophe	Montreal			CA

US-CL-CURRENT: 424/450; 424/1.21, 424/9.321, 424/9.51, 424/94.3, 428/402.2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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☐ 8. Document ID: US 6395712 B1

L7: Entry 8 of 37 File: USPT May 28, 2002

US-PAT-NO: 6395712
DOCUMENT-IDENTIFIER: US 6395712 B1

TITLE: Sensitization of HER-2/neu overexpressing cancer cells to chemotherapy

DATE-ISSUED: May 28, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hung; Mien-Chie	Houston	TX		
Ueno; Naoto T.	Houston	TX		

US-CL-CURRENT: 514/44; 424/649, 514/449

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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☐ 9. Document ID: US 6392063 B1

L7: Entry 9 of 37 File: USPT May 21, 2002

US-PAT-NO: 6392063
DOCUMENT-IDENTIFIER: US 6392063 B1

TITLE: Hydrolysis-promoting hydrophobic taxane derivatives

DATE-ISSUED: May 21, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ali; Shaukat	Monmouth Junction	NJ		
Franklin; J. Craig	Skillman	NJ		
Ahmad; Imran	Cranbury	NJ		
Mayhew; Eric	Monmouth Junction	NJ		
Bhattacharya; Soumendu	Plainsboro	NJ		
Koehane; Gil	Piscataway	NJ		
Janoff; Andrew S.	Yardley	PA		

US-CL-CURRENT: 549/510; 549/511

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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☐ 10. Document ID: US 6348215 B1

L7: Entry 10 of 37 File: USPT Feb 19, 2002

US-PAT-NO: 6348215
DOCUMENT-IDENTIFIER: US 6348215 B1

TITLE: Stabilization of taxane-containing dispersed systems

DATE-ISSUED: February 19, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Straubinger; Robert M.	Amherst	NY		
Balasubramanian; Sathyamangalam V.	Buffalo	NY		

US-CL-CURRENT: 424/450; 549/510, 549/511

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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☐ 11. Document ID: US 6296870 B1

L7: Entry 11 of 37 File: USPT Oct 2, 2001

US-PAT-NO: 6296870
DOCUMENT-IDENTIFIER: US 6296870 B1

TITLE: Liposomes containing active agents

DATE-ISSUED: October 2, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Needham; David	Durham	NC		
Sarpal; Ranjit S.	Durham	NC		

US-CL-CURRENT: 424/450; 424/1.21, 424/9.321, 424/9.51, 424/94.3

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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☐ 12. Document ID: US 6291690 B1

L7: Entry 12 of 37 File: USPT Sep 18, 2001

US-PAT-NO: 6291690

DOCUMENT-IDENTIFIER: US 6291690 B1

TITLE: Hydrophobic taxane derivatives

DATE-ISSUED: September 18, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mayhew; Eric	Monmouth Junction	NJ		
Franklin; J. Craig	Princeton	NJ		
Bhatia; Suresh	New Delhi			IN
Harmon; Paul A.	Newtown	PA		
Janoff; Andrew S.	Yardley	PA		

US-CL-CURRENT: 549/510; 549/511

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw. Desc | Image

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☐ 13. Document ID: US 6284267 B1

L7: Entry 13 of 37 File: USPT Sep 4, 2001

US-PAT-NO: 6284267
DOCUMENT-IDENTIFIER: US 6284267 B1
**** See image for Certificate of Correction ****

TITLE: Amphiphilic materials and liposome formulations thereof

DATE-ISSUED: September 4, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Aneja; Rajindra	Ithaca	NY		

US-CL-CURRENT: 424/450; 424/1.21, 424/417, 424/9.321, 424/9.51, 424/94.3, 428/402.2, 436/829, 554/103, 554/227, 554/79, 554/80

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw. Desc | Image

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☐ 14. Document ID: US 6262107 B1

L7: Entry 14 of 37 File: USPT Jul 17, 2001

US-PAT-NO: 6262107
DOCUMENT-IDENTIFIER: US 6262107 B1

TITLE: Water soluble paclitaxel prodrugs

DATE-ISSUED: July 17, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Li; Chun	Missouri City	TX		
Wallace; Sidney	Houston	TX		
Yu; Dong-Fang	Houston	TX		
Yang; David J.	Sugar Land	TX		

US-CL-CURRENT: 514/449; 424/1.65, 424/9.36, 549/510, 549/511

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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☐ 15. Document ID: US 6214388 B1

L7: Entry 15 of 37 File: USPT Apr 10, 2001

US-PAT-NO: 6214388
DOCUMENT-IDENTIFIER: US 6214388 B1

TITLE: Immunoliposomes that optimize internalization into target cells

DATE-ISSUED: April 10, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Benz; Christopher C.	Novato	CA		
Papahadjopoulos; Demetrios P.	San Francisco	CA		
Park; John W.	San Francisco	CA		
Hong; Keelung	San Franciso	CA		
Kirpotin; Dmitri	San Francisco	CA		

US-CL-CURRENT: 424/143.1; 424/450, 514/34, 514/44, 530/387.1, 530/387.3, 530/388.22

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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☐ 16. Document ID: US 6200598 B1

L7: Entry 16 of 37 File: USPT Mar 13, 2001

US-PAT-NO: 6200598
DOCUMENT-IDENTIFIER: US 6200598 B1
**** See image for Certificate of Correction ****

TITLE: Temperature-sensitive liposomal formulation

DATE-ISSUED: March 13, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Needham; David	Durham	NC		

US-CL-CURRENT: 424/450; 424/1.21, 424/9.321, 424/9.51, 424/94.3

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC
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☐ 17. Document ID: US 6146659 A

L7: Entry 17 of 37 File: USPT Nov 14, 2000

US-PAT-NO: 6146659
DOCUMENT-IDENTIFIER: US 6146659 A

TITLE: Method of administering liposomal encapsulated taxane

DATE-ISSUED: November 14, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rahman; Aquilur	Long Grove	IL		

US-CL-CURRENT: 424/450; 514/449, 514/510

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC
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☐ 18. Document ID: US 6143321 A

L7: Entry 18 of 37 File: USPT Nov 7, 2000

US-PAT-NO: 6143321
DOCUMENT-IDENTIFIER: US 6143321 A

TITLE: Liposomes containing active agents

DATE-ISSUED: November 7, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Needham; David	Durham	NC		
Sarpal; Ranjit S.	Durham	NC		

US-CL-CURRENT: 424/450; 424/1.21, 424/9.321, 424/9.51, 424/94.3

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC
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☐ 19. Document ID: US 6118011 A

L7: Entry 19 of 37 File: USPT Sep 12, 2000

US-PAT-NO: 6118011
DOCUMENT-IDENTIFIER: US 6118011 A

TITLE: Preparation of liposomal taxanes

DATE-ISSUED: September 12, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mayhew; Eric	Monmouth Junction	NJ		
Franklin; J. Craig	Princeton	NJ		
Bhatia; Suresh	New Delhi			IN
Harmon; Paul A.	Newtown	PA		
Janoff; Andrew S.	Yardley	PA		

US-CL-CURRENT: 549/510; 549/511

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWMC | Draw Desc | Image

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☐ 20. Document ID: US 6107332 A

L7: Entry 20 of 37 File: USPT Aug 22, 2000

US-PAT-NO: 6107332
DOCUMENT-IDENTIFIER: US 6107332 A
**** See image for Certificate of Correction ****

TITLE: Hydrolysis-promoting hydrophobic taxane derivatives

DATE-ISSUED: August 22, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ali; Shaukat	Monmouth Junction	NJ		
Franklin; J. Craig	Skillman	NJ		
Ahmad; Imran	Cranbury	NJ		
Mayhew; Eric	Monmouth Junction	NJ		
Bhattacharya; Soumendu	Plainsboro	NJ		
Koehane; Gil	Piscataway	NJ		
Janoff; Andrew S.	Yardley	PA		

US-CL-CURRENT: 514/449; 510/510, 510/511

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWMC | Draw Desc | Image

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☐ 21. Document ID: US 6051600 A

L7: Entry 21 of 37 File: USPT Apr 18, 2000

US-PAT-NO: 6051600
DOCUMENT-IDENTIFIER: US 6051600 A
**** See image for Certificate of Correction ****

TITLE: Liposomal hydrolysis-promoting hydrophobic taxane derivatives

DATE-ISSUED: April 18, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mayhew; Eric	Monmouth Junction	NJ	08852	
Ali; Shaukat	Monmouth Junction	NJ	08852	
Janoff; Andrew S.	Yardley	PA	19067	

US-CL-CURRENT: 514/449; 549/510, 549/511

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC
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☐ 22. Document ID: US 5977163 A

L7: Entry 22 of 37 File: USPT Nov 2, 1999

US-PAT-NO: 5977163
DOCUMENT-IDENTIFIER: US 5977163 A
**** See image for Certificate of Correction ****

TITLE: Water soluble paclitaxel prodrugs

DATE-ISSUED: November 2, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Li; Chun	Missouri City	TX		
Wallace; Sidney	Houston	TX		
Yu; Dong-Fang	Houston	TX		
Yang; David J.	Sugar Land	TX		

US-CL-CURRENT: 514/449; 424/1.65, 424/9.36, 549/510, 549/511

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC
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☐ 23. Document ID: US 5939567 A

L7: Entry 23 of 37 File: USPT Aug 17, 1999

US-PAT-NO: 5939567
DOCUMENT-IDENTIFIER: US 5939567 A

TITLE: Synthesis of hydrophobic taxane derivatives

DATE-ISSUED: August 17, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mayhew; Eric	Monmouth Junction	NJ		
Franklin; J. Craig	Princeton	NJ		
Bhatia; Suresh	New Delhi			IN
Harmon; Paul A.	Newtown	PA		
Janoff; Andrew S.	Yardley	PA		

US-CL-CURRENT: 549/510; 549/511

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw. Desc | Image

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☐ 24. Document ID: US 5882679 A

L7: Entry 24 of 37 File: USPT Mar 16, 1999

US-PAT-NO: 5882679
DOCUMENT-IDENTIFIER: US 5882679 A

TITLE: Liposomes containing active agents aggregated with lipid surfactants

DATE-ISSUED: March 16, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Needham; David	Durham	NC		

US-CL-CURRENT: 424/450

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw. Desc | Image

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☐ 25. Document ID: US 5827533 A

L7: Entry 25 of 37 File: USPT Oct 27, 1998

US-PAT-NO: 5827533
DOCUMENT-IDENTIFIER: US 5827533 A
**** See image for Certificate of Correction ****

TITLE: Liposomes containing active agents aggregated with lipid surfactants

DATE-ISSUED: October 27, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Needham; David	Durham	NC		

US-CL-CURRENT: 424/450; 424/1.21, 424/9.32, 424/9.51

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw. Desc | Image

☐ 26. Document ID: US 5776486 A

L7: Entry 26 of 37 File: USPT Jul 7, 1998

US-PAT-NO: 5776486
DOCUMENT-IDENTIFIER: US 5776486 A

TITLE: Methods and apparatus for making liposomes containing hydrophobic drugs

DATE-ISSUED: July 7, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Castor; Trevor P.	Arlington	MA		
Chu; Ling	Chelmsford	MA		

US-CL-CURRENT: 424/450; 264/4.1, 264/4.3, 264/4.6

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw. Desc | Image

☐ 27. Document ID: US 5756537 A

L7: Entry 27 of 37 File: USPT May 26, 1998

US-PAT-NO: 5756537
DOCUMENT-IDENTIFIER: US 5756537 A

TITLE: Regime for paclitaxel in Kaposi's sarcoma patients

DATE-ISSUED: May 26, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gill; Parkash S.	Agoura Hills	CA		

US-CL-CURRENT: 514/449; 514/359, 514/383, 514/450, 514/451, 514/452, 514/8

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw. Desc | Image

☐ 28. Document ID: US 5703117 A

L7: Entry 28 of 37 File: USPT Dec 30, 1997

US-PAT-NO: 5703117
DOCUMENT-IDENTIFIER: US 5703117 A
**** See image for Certificate of Correction ****

TITLE: Hydrolysis-promoting hydrophobic taxane derivatives

DATE-ISSUED: December 30, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mayhew; Eric	Monmouth Junction	NJ		
Ali; Shaukat	Monmouth Junction	NJ		
Janoff; Andrew S.	Yardley	PA		

US-CL-CURRENT: 514/449; 549/510, 549/511

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw. Desc | Image

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☐ 29. Document ID: US 5683715 A

L7: Entry 29 of 37 File: USPT Nov 4, 1997

US-PAT-NO: 5683715
DOCUMENT-IDENTIFIER: US 5683715 A

TITLE: Taxane-containing phosphatidylcholine liposomes

DATE-ISSUED: November 4, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Boni; Lawrence	Monmouth Junction	NJ		
Portnoff; Joel	Langhorne	PA		

US-CL-CURRENT: 424/450

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw. Desc | Image

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☐ 30. Document ID: US 5580899 A

L7: Entry 30 of 37 File: USPT Dec 3, 1996

US-PAT-NO: 5580899
DOCUMENT-IDENTIFIER: US 5580899 A

TITLE: Hydrophobic taxane derivatives

DATE-ISSUED: December 3, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mayhew; Eric	Monmouth Junction	NJ		
Franklin; J. Craig	Princeton	NJ		
Bhatia; Suresh	Alaknanda			IN
Harmon; Paul A.	Newtown	PA		
Janoff; Andrew S.	Yardley	PA		

US-CL-CURRENT: 514/449; 549/510, 549/511

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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Previous Page Next Page